

Missouri Oil and Gas Council

Form OGC-3

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

APPLICATION TO DRILL ☒ DEEPEN ☐ PLUG BACK ☐
for an oil well ☒ or gas well ☐

NAME OF COMPANY OR OPERATOR Town Oil Co. DATE 12/6/85
Route 4 Padua MO 66071
Address City State

| DESCRIPTION OF WELL AND LEASE | | | | | | | |
|--|-------------------------------------|---|---|------------------|------------------|---------------------|------------------|
| Name of lease <u>Jack Beary</u> | Well number <u>54 C</u> | Elevation (ground) <u>1066</u> | | | | | |
| WELL LOCATION (give footage from section lines) <u>546.46</u> ft. from (N) (S) sec. line <u>1652.25</u> ft from (E) (W) sec. line | | | | | | | |
| WELL LOCATION Section <u>4</u> Township <u>46N</u> Range <u>33W</u> | | County <u>CASS</u> | | | | | |
| Nearest distance from proposed location to property or lease line: <u>385</u> feet | | Distance from proposed location to nearest drilling, completed or applied for well on the same lease: <u>190.73</u> feet | | | | | |
| Proposed depth <u>650</u> | Drilling contractor, name & address | <input checked="" type="checkbox"/> Rotary or Cable Tools | Approx. date work will start <u>see note</u> | | | | |
| Number of acres in lease <u>24.5</u> | | Number of wells on lease, including this well, completed in or drilling to this reservoir: _____ Number of abandoned wells on lease: _____ | | | | | |
| If lease, purchased with one or more wells drilled, from whom purchased: Name _____ Address _____ | | No. of Wells: producing _____ injection _____ inactive _____ abandoned _____ | | | | | |
| Status of Bond Single Well <input type="checkbox"/> Amt. _____ | | Blanket Bond <input checked="" type="checkbox"/> Amt. <u>20,000</u> <input checked="" type="checkbox"/> ON FILE <input type="checkbox"/> ATTACHED | | | | | |
| Remarks: (If this is an application to deepen or plug back, briefly describe work to be done, giving present producing zone and expected new producing zone) use back of form if needed. | | | | | | | |
| Proposed casing program: | | Approved casing -- To be filled in by State Geologist | | | | | |
| amt. <u>650</u> <u>20</u> | size <u>4"</u> <u>7 1/2"</u> | wt./ft. <u>10.4</u> <u>22</u> | cem. <u>yes</u> <u>yes</u> | amt. <u>✓</u> | size <u>✓</u> | wt./ft. <u>✓</u> | cem. <u>✓</u> |
| I, the undersigned, state that I am the _____ of the _____ (company), and that I am authorized by said company to make this report, and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge. | | | | | | | |
| Signature <u>Lucretia Town</u> | | | | | | | |

Permit Number: 20124
Approval Date: 12/6/85
Approved By: Wallace B. Hunt *BWH*

Note: This Permit not transferable to any other person or to any other location.

Remit two copies to: Missouri Oil and Gas Council
P.O. Box 250 Rolla, Mo. 65401
One will be returned for driller's signature

- ☒ Drillers log required
☒ E-logs required if run
☒ Core analysis required if run
☒ Drill stem test info. required if run
☐ Samples required
☒ Samples not required

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WATER SAMPLES REQUIRED @

Approval of this permit by the Oil and Gas Council does not constitute endorsement of the geologic merits of the proposed well nor endorsement of the qualifications of the permittee.

APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

APPLICATION TO DRILL ☒ DEEPEN ☐ PLUG BACK ☐

NAME OF COMPANY OR OPERATOR General Energy Inc. of Linn Co DATE 12-15-80
Box 216 Mound City KANSAS 66056
 Address City State

DESCRIPTION OF WELL AND LEASE

| | | |
|--|---|---|
| Name of lease <u>JACK BEARY</u> | Well number <u>54C</u> | Elevation (ground) <u>1066.</u> |
| WELL LOCATION (give footage from section lines) <u>546.46</u> ft. from (N) <input checked="" type="checkbox"/> sec. line <u>1652.25</u> ft. from (E) <input checked="" type="checkbox"/> sec. line | | |
| WELL LOCATION Section <u>4</u> Township <u>46</u> Range <u>33</u> | | County <u>CASS</u> |
| Nearest distance from proposed location to property or lease line: <u>385</u> feet | | Distance from proposed location to nearest drilling, completed or applied - for well on the same lease: <u>190.73</u> feet |
| Proposed depth: <u>650</u> | Rotary or Cable tools <u>ROTARY</u> | Approx. date work will start <u>12-20-80</u> |
| Number of acres in lease: <u>24.5</u> | Number of wells on lease, including this well, completed in or drilling to this reservoir: <u>0</u> Number of abandoned wells on lease: <u>0</u> | |
| If lease, purchased with one or more wells drilled, from whom purchased: Name _____ Address _____ | | No. of Wells: producing _____ inactive _____ abandoned _____ |
| Status of Bond: Single Well <input type="checkbox"/> Amt. _____ Blanket Bond <input checked="" type="checkbox"/> Amt. <u>20,000</u> <input checked="" type="checkbox"/> ON FILE <input type="checkbox"/> ATTACHED | | |

Remarks: (If this is an application to deepen or plug back, briefly describe work to be done, giving present producing zone and expected new producing zone) use back of form if needed.

| Proposed casing program: | | | | Approved casing - To be filled in by State Geologist | | | |
|--------------------------|--------------|-------------|------------|--|------|---------|------|
| amt. | size | wt./ft. | cem. | amt. | size | wt./ft. | cem. |
| <u>650</u> | <u>4</u> | <u>10.4</u> | <u>yes</u> | | | | |
| <u>20</u> | <u>7 1/4</u> | <u>22</u> | <u>yes</u> | | | | |
| | | | | | | | |
| | | | | | | | |

I, the undersigned, state that I am the president of the General Energy Inc. (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Signature Gilbert McLawtonPermit Number: 20124Approval Date: 12/18/80Approved By: Wallace B. Howe

Note: This Permit not transferable to any other person or to any other location.

Remit two copies to: Missouri Oil and Gas Council
P.O. Box 250 Rolla, Mo. 65401

One will be returned for driller's signature

☐ SAMPLES REQUIRED☒ SAMPLES NOT REQUIRED

DEC 18 1980

WATER SAMPLES REQUIRED @ OIL & GAS COUNCIL

Approval of this permit by the Oil and Gas Council does not constitute endorsement of the geologic merits of the proposed well nor endorsement of the qualifications of the permittee.

MISSOURI OIL AND GAS COUNCIL

Form OGC-5

WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

New Well ☒ Work-Over ☐ Deepen ☐ Plug Back ☐ Same Reservoir ☐ Different Reservoir ☐ Oil ☒ Gas ☐ Dry ☐

| | | | |
|---|---|--|--|
| Owner Emery Energy, Inc. | | Address Box 519, Osawatomie, Kansas 66064 | |
| Lease Name Jack Beary Lease | | Well Number C-54 | |
| Location 546.46 ft. FNL 1652.25 Ft. FEL | | Sec. — TWP-Range or Block & Survey Sec. 4 Twp. 46N Range 33W | |
| County Cass | Permit number (OGC3 number) 20124 | | |
| Date spudded 12-23-80 | Date total depth reached 1-6-81 | Date completed, ready to produce 2-17-81 | Elevation (DF, RKB, RT or Gr.) feet 1066 |
| Total depth 640 ft. | P. B. T. D. 630.60 | | |
| Producing interval (s) for this completion 556-576 | | Rotary tools used (interval) From 0 to T.D. Drilling Fluid used water, air | |
| Was this well directionally drilled? no | | Was directional survey made? no | |
| Type of electrical or other logs run (list logs filed with the State Geologist) Gamma Ray, Neutron, CCL | | Cable tools used (interval) From None to None Date filed 5/25/1981 | |

CASING RECORD

Casing (report all strings set in well—conductor, surface, intermediate, producing, etc.)

| Purpose | Size hole drilled | Size casing set | Weight (lb ft) | Depth set | Sacks cement | Amt pulled |
|-----------|-------------------|-----------------|----------------|-----------|--------------|------------|
| surface | 9 in. | 7 in. | 35 | 21.583 | 70 | |
| producing | 6.25 in. | 4 in. | 10.6 | 630.60 | | |

TUBING RECORD

LINER RECORD

| Size | Depth set | Packer set at | Size | Top | Bottom | Sacks cement | Screen (ft.) |
|-----------|-----------|---------------|---------|---------|---------|--------------|--------------|
| 2.375 in. | 551 ft. | none ft. | N/A in. | N/A ft. | N/A ft. | N/A | N/A |

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

| Number per ft. | Size & type | Depth Interval | Amt. & kind of material used | Depth Interval |
|----------------|-------------|----------------|------------------------------|----------------|
| 1.67 | 3½ glass | 556-576 | water gel | |
| | | | sand 20-40 | 20 |
| | | | sand 10-30 | 10 |

INITIAL PRODUCTION

| | | | | | | | |
|--|-----------------|---|--------------------------------|------------------------------|----------------------------------|----------------------------|--|
| Date of first production 2-26-81 | | Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump): No record-see later production report | | | | | |
| Date of test no | Hrs. tested | choke size | Oil prod. during test bbls. | Gas prod. during test MCF | Water prod. during test bbls. | Oil gravity API (Corr.) | |
| Tubing pressure | Casing pressure | Cal'ated rate of Production per 24 hrs. | Oil bbls. | Gas MCF | Water bbls. | Gas-oil ratio | |

Disposition of gas (state whether vented, used for fuel or sold):

Method of disposal of mud pit contents:

CERTIFICATE: I, the undersigned, state that I am the **Vice-President** of the **Emery Energy, Inc.** (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Signature

Devon Hurst

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DETAIL OF FORMATIONS PENETRATED

| Formation | Top | Bottom | Description* |
|-----------------------------|-----|----------|--|
| PENNSYLVANIAN SYSTEM | | | |
| KANSAS CITY | | | |
| Iola Ls. | 0 | 40 | White to light gray limestone |
| Chanute Sh. | 40 | 106 | Gray to green shales with gray limestone beds |
| Cement City Sh. | 66 | 74 | Blue, gray limestone |
| Belton Ss. | 100 | 106 | Sandstone |
| Cherryvale Sh. | 106 | 140 | Gray, blue shales |
| Dennis Ls. | | | |
| Winterset Sh. | 140 | 191 | Gray, blue coarse limestone |
| Stark Sh. | 191 | 196 | Black, fissile shale |
| Swope Ls. | | | |
| Bethany Falls Ls. | 196 | 217 | Gray, fine to coarse limestone |
| Hush puckney Sh. | 217 | 220 | Black, fissile shale |
| Hertha Ls. | 220 | 232 | Gray to blue limestone |
| PLEASANTON | 232 | | Gray, green shales |
| Knobtown Ss. | | | sand |
| Dawson Coal Hor. | 363 | 366 | Black, fissile, slaty shale |
| HENRIETTA | 412 | 519 | |
| Alamont | 412 | 434 | Gray brown, fine grained limestone with gray shale |
| Pawnee | 434 | 470 | Fine grained, light gray limestone |
| Peru Ss. | 447 | 455 | Sand |
| Myrick Sta. Ls. | 466 | 470 | Gray to brown limestone |
| Anna Sh. | 470 | 475 | Coal to black fissile shale |
| Fort Scott | 475 | 519 | Gray to green shales and limestone |
| Englevale Ss. | 475 | 499 | Fine to medium grained channel sandstone |
| CHEROKEE | 519 | --- | Gray to dark shales |
| Upper Cherokee | | | |
| Upper Squirrel | 520 | 531 | Fine to medium grained sandstones |
| Lower Squirrel | 555 | 570 | Fine to medium grained sandstones |
| Bevier Coal Hor. | --- | --- | Black coal |
| Lower Cherokee | | | |
| Burbank Ss. | | | Sandstone, irregular |
| Bartlesville Ss. | 570 | 640 T.D. | Shale, sandy shale, thin sandstone |
| Core # 1 | 445 | 465 | Core # 4 562-582 |
| Core # 2 | 470 | 485 | Core # 5 582-602 |
| Core # 3 | 542 | 562 | |

*Show all important zones of porosity, detail of all cores, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

INSTRUCTIONS:

Attach drillers log or other acceptable log of well if available.

OILFIELD RESEARCH LABORATORIES

LOGName Emery Energy, Inc. Lease Beary Well No. 54-C

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| <u>Depth Interval, Feet</u> | <u>Description</u> |
|---------------------------------|---|
| <u>UPPER SQUIRREL SAND</u> | |
| 445.0 - 447.7 | Light brown sandstone. |
| 447.7 - 451.0 | Light brown and gray laminated sandstone and shale. |
| 451.0 - 454.2 | Dark brown and gray laminated sandstone and shale. |
| 454.2 - 465.0 | Gray shale. |
| 470.0 - 470.3 | Coal. |
| 470.3 - 471.8 | Gray shale. |
| 471.8 - 473.0 | Grayish light brown slightly calcareous shaly sandstone. |
| 473.0 - 474.0 | Brown slightly calcareous sandstone. |
| 474.0 - 479.9 | Light brown and gray laminated slightly calcareous sandstone and shale. |
| 479.9 - 485.0 | Gray laminated sandstone and shale. |
| <u>LOWER SQUIRREL SAND</u> | |
| 542.0 - 548.7 | Grayish light brown shaly sandstone. |
| 548.7 - 549.2 | Brown sandstone. |
| 549.2 - 550.4 | Grayish light brown shaly sandstone. |
| 550.4 - 551.9 | Brown slightly calcareous sandstone. |
| 551.9 - 553.0 | Grayish light brown shaly sandstone. |
| 553.0 - 554.5 | Brown slightly calcareous sandstone. |
| 554.5 - 558.6 | Brown and gray laminated slightly calcareous sandstone and shale. |
| 558.6 - 559.4 | Grayish light brown shaly sandstone. |
| 559.4 - 568.6 | Dark brown sandstone. |
| 568.6 - 570.9 | Brown and gray laminated slightly calcareous sandstone and shale. |

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LOG

-2-

| | |
|---------------|---|
| 570.9 - 571.1 | Hard gray limestone. |
| 571.7 - 576.4 | Brown slightly calcareous sandstone. |
| 576.4 - 577.0 | Grayish light brown shaly sandstone. |
| 580.0 - 581.4 | Grayish light brown very shaly sandstone. |
| 581.4 - 582.8 | Brown sandstone. |
| 582.8 - 583.9 | Brown and gray laminated sandstone and shale. |
| 583.9 - 585.4 | Gray sandy shale. |
| 585.4 - 586.7 | Brown slightly calcareous sandstone. |
| 586.7 - 588.4 | Grayish brown calcareous conglomeratic shaly sandstone. |
| 588.4 - 589.5 | Hard gray limestone. |
| 589.5 - 602.0 | Grayish light brown slightly calcareous sandstone. |

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Oilfield Research Laboratories

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1

Company Emery Energy, Inc. Lease Beary Well No. 54-C

| Sample No. | Depth, Feet | Porosity Percent | Percent Saturation | | | Oil Content Bbla. / A Ft. | Perm., Mill. |
|------------|-------------|---------------------|--------------------|-------|-------|---------------------------|--------------|
| | | | Oil | Water | Total | | |
| | | UPPER SQUIRREL SAND | | | | | |
| 1 | 445.5 | 15.4 | 22 | 70 | 92 | 263 | * |
| 2 | 446.6 | 22.5 | 19 | 63 | 82 | 332 | 74. |
| 3 | 447.6 | 20.3 | 18 | 78 | 96 | 284 | 13. |
| 4 | 448.5 | 18.0 | 21 | 75 | 96 | 293 | 0.58 |
| 5 | 450.4 | 18.2 | 14 | 80 | 94 | 198 | 0.60 |
| 6 | 451.2 | 22.1 | 38 | 54 | 92 | 652 | 30. |
| 7 | 452.3 | 22.5 | 40 | 40 | 80 | 698 | 101. |
| 8 | 453.2 | 19.0 | 47 | 47 | 94 | 693 | Imp. |
| 9 | 472.6 | 18.2 | 52 | 30 | 82 | 734 | 0.95 |
| 10 | 473.5 | 20.0 | 51 | 40 | 91 | 791 | 57. |
| 11 | 474.5 | 18.4 | 49 | 42 | 81 | 700 | 6.3 |
| 12 | 475.8 | 18.3 | 50 | 34 | 84 | 710 | 32. |
| 13 | 477.5 | 14.3 | 45 | 35 | 80 | 499 | 3.1 |
| | | LOWER SQUIRREL SAND | | | | | |
| 14 | 542.5 | 16.3 | 21 | 72 | 93 | 266 | Imp. |
| 15 | 544.8 | 18.1 | 25 | 71 | 96 | 351 | Imp. |
| 16 | 545.6 | 18.2 | 27 | 67 | 94 | 381 | Imp. |
| 17 | 547.4 | 14.5 | 25 | 70 | 95 | 281 | 4.2 |
| 18 | 548.9 | 15.4 | 12 | 82 | 94 | 143 | 48. |
| 19 | 550.6 | 25.1 | 43 | 22 | 65 | 837 | 121. |
| 20 | 551.2 | 25.1 | 51 | 18 | 69 | 993 | 101. |
| 21 | 553.2 | 24.0 | 55 | 23 | 78 | 1024 | 130. |
| 22 | 554.4 | 21.9 | 43 | 31 | 74 | 731 | 43. |
| 23 | 555.7 | 20.1 | 49 | 39 | 88 | 764 | 50. |
| 24 | 556.8 | 25.3 | 53 | 16 | 69 | 1040 | 160. |
| 25 | 557.5 | 20.5 | 29 | 57 | 86 | 461 | 158. |
| 26 | 558.5 | 19.6 | 55 | 35 | 90 | 836 | 105. |
| 27 | 559.6 | 25.8 | 50 | 19 | 69 | 1001 | 188. |
| 28 | 560.4 | 24.5 | 44 | 28 | 72 | 836 | 20. |
| 29 | 561.7 | 24.4 | 59 | 26 | 85 | 1117 | 203. |
| 30 | 562.5 | 25.0 | 51 | 24 | 75 | 989 | 314. |
| 31 | 563.5 | 23.1 | 47 | 28 | 75 | 842 | 208. |
| 32 | 564.6 | 22.4 | 56 | 31 | 87 | 973 | 335. |
| 33 | 565.5 | 24.9 | 50 | 16 | 66 | 966 | 203. |
| 34 | 566.6 | 20.6 | 53 | 32 | 85 | 847 | 200. |
| 35 | 567.5 | 21.3 | 45 | 33 | 78 | 744 | 140. |
| 36 | 568.5 | 26.8 | 62 | 17 | 79 | 1289 | 119. |
| 37 | 569.7 | 23.0 | 47 | 41 | 88 | 839 | 296. |
| 38 | 571.8 | 6.8 | 24 | 67 | 91 | 127 | 75. |
| 39 | 573.7 | 21.8 | 37 | 39 | 76 | 626 | 141. |
| 40 | 576.2 | 22.4 | 36 | 47 | 83 | 626 | 99. |
| 41 | 581.8 | 24.6 | 42 | 45 | 87 | 802 | 105. |
| 42 | 582.7 | 20.1 | 17 | 17 | 94 | 265 | 73. |
| 43 | 583.5 | 22.5 | 41 | 44 | 85 | 716 | 46. |

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| Sample No. | Depth, Feet | Porosity Percent | Percent Saturation | | | Oil Content Bbls. / A Ft. | Perm., Mill. |
|------------|-------------|------------------|--------------------|-------|-------|---------------------------|--------------|
| | | | Oil | Water | Total | | |
| 44 | 585.6 | 21.3 | 32 | 60 | 92 | 529 | 74. |
| 45 | 586.5 | 17.8 | 27 | 71 | 98 | 373 | 20. |
| 46 | 589.7 | 24.9 | 41 | 39 | 80 | 792 | 149. |
| 47 | 591.4 | 25.0 | 30 | 54 | 84 | 582 | * |
| 48 | 593.5 | 19.2 | 38 | 35 | 73 | 566 | 37. |
| 49 | 595.1 | 21.8 | 20 | 42 | 62 | 82 | 50. |
| 50 | 596.8 | 22.0 | 33 | 28 | 61 | 563 | 19. |
| 51 | 598.7 | 21.8 | 52 | 28 | 80 | 879 | 96. |
| 52 | 600.2 | 22.4 | 39 | 28 | 67 | 678 | 79. |
| 53 | 601.3 | 21.2 | 33 | 56 | 89 | 543 | 22. |

NOTE: * Permeability samples were unobtainable.

NOTE: * Permeability samples were unobtainable.

RESULTS OF SATURATION & PERMEABILITY TESTS

JUN 04 1981

TABLE 1-B

MO. OIL & GAS COUNCIL

Well No. 54-C

Company Emery EnergyLease Beary

| Sample No. | Depth, Feet | Effective Porosity, Percent | Percent Saturation | | Oil Content Bbls./A.Ft. | Perm. Mill. | Feet of Sand | | Total Content |
|------------|-------------|-----------------------------|--------------------|-------|-------------------------|-------------|--------------|-----------|---------------|
| | | | Oil | Water | | | Feet | Cum. Feet | |
| 1 | 445.5 | 15.4 | 22 | 70 | 263 | * | | | |
| 2 | 46.6 | 22.5 | 19 | 63 | 332 | 74. | | | |
| 3 | 47.6 | 20.3 | 18 | 78 | 284 | 13. | | | |
| 4 | 48.5 | 18.0 | 21 | 75 | 293 | 0.58 | | | |
| 5 | 50.4 | 18.2 | 14 | 80 | 198 | 0.60 | | | |
| 6 | 51.2 | 22.1 | 38 | 54 | 652 | 30. | | | |
| 7 | 52.3 | 22.5 | 40 | 40 | 698 | 101. | | | |
| 8 | 53.2 | 19.0 | 47 | 47 | 693 | Imp. | | | |
| 9 | 72.6 | 18.2 | 52 | 30 | 734 | 6.95 | | | |
| 10 | 73.5 | 20.0 | 51 | 40 | 791 | 57. | | | |
| 11 | 74.5 | 18.4 | 49 | 42 | 700 | 6.3 | | | |
| 12 | 75.8 | 18.3 | 50 | 34 | 710 | 32. | | | |
| 13 | 472.5 | 14.3 | 45 | 35 | 499 | 3.1 | | | |
| 14 | 542.5 | 16.3 | 21 | 72 | 266 | Imp. | | | |
| 15 | 44.8 | 18.1 | 25 | 71 | 351 | " | | | |
| 16 | 45.6 | 18.2 | 27 | 67 | 381 | " | | | |
| 17 | 47.4 | 14.5 | 25 | 70 | 281 | 4.2 | | | |
| 18 | 48.9 | 15.4 | 12 | 82 | 143 | 48. | | | |
| 19 | 50.6 | 25.1 | 43 | 22 | 837 | 121. | | | |
| 20 | 51.2 | 25.1 | 51 | 18 | 993 | 101. | | | |
| 21 | 53.2 | 24.0 | 55 | 23 | 1024 | 130. | | | |
| 22 | 54.4 | 21.9 | 43 | 31 | 731 | 43. | | | |
| 23 | 55.7 | 20.1 | 49 | 39 | 764 | 50. | | | |
| 24 | 55.8 | 25.2 | 53 | 16 | 1040 | 160. | | | |

RESULTS OF SATURATION & PERMEABILITY TESTS

JUN 04 1981

TABLE 1-B

MO. OIL & GAS COUNCIL

Company Emery Energy Lease Beary Well No. 54-C

| Sample No. | Depth, Feet | Effective Porosity, Percent | Percent Saturation | | Oil Content Bbls./A.Ft. | Perm. Mill. | Feet of Sand | | Total Oil Content |
|------------|-------------|-----------------------------|--------------------|-------|-------------------------|-------------|--------------|-----------|-------------------|
| | | | Oil | Water | Total | | Feet | Cum. Feet | |
| 25 | 557.5 | 20.5 | 29 | 57 | 86 | 158. | | | |
| 26 | 58.5 | 19.6 | 55 | 35 | 90 | 105. | | | |
| 27 | 59.6 | 25.8 | 50 | 19 | 69 | 188. | | | |
| 28 | 60.4 | 24.5 | 44 | 28 | 72 | 20. | | | |
| 29 | 61.7 | 24.4 | 59 | 26 | 85 | 203. | | | |
| 30 | 62.5 | 25.0 | 51 | 24 | 75 | 314. | | | |
| 31 | 63.5 | 23.1 | 47 | 28 | 75 | 208. | | | |
| 32 | 64.6 | 22.4 | 56 | 31 | 87 | 335. | | | |
| 33 | 65.5 | 24.9 | 50 | 16 | 66 | 203. | | | |
| 34 | 66.6 | 20.6 | 53 | 32 | 85 | 200. | | | |
| 35 | 67.5 | 21.3 | 45 | 33 | 78 | 140. | | | |
| 36 | 68.5 | 26.8 | 62 | 17 | 79 | 119. | | | |
| 37 | 69.7 | 23.0 | 47 | 41 | 88 | 296. | | | |
| 38 | 71.8 | 6.8 | 24 | 67 | 91 | 75. | | | |
| 39 | 73.7 | 21.8 | 37 | 39 | 76 | 141. | | | |
| 40 | 76.2 | 23.4 | 36 | 47 | 83 | 99. | | | |
| 41 | 81.8 | 24.6 | 42 | 45 | 87 | 105. | | | |
| 42 | 82.7 | 20.1 | 17 | 17 | 94 | 73. | | | |
| 43 | 83.5 | 22.5 | 41 | 44 | 85 | 46. | | | |
| 44 | 85.6 | 21.3 | 32 | 60 | 92 | 74. | | | |
| 45 | 86.5 | 17.8 | 27 | 71 | 98 | 20. | | | |
| 46 | 89.7 | 24.9 | 41 | 39 | 80 | 149. | | | |
| 47 | 91.4 | 25.0 | 30 | 54 | 84 | * | | | |
| 48 | 593.5 | 19.2 | 38 | 35 | 73 | 37. | | | |

3

OILFIELD RESEARCH LABORATORIES

JUN 04 1981

RESULTS OF SATURATION & PERMEABILITY TESTS

MO. OIL & GAS COUNCIL

TABLE 1-B

Company Emery Energy Lease Beary Well No. 54-C

[illegible]



EMERY ENERGY, INC.

225 North State Street
Salt Lake City, Utah 84103
(801) 531-8770

June 14, 1984

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JUN 21 1984

Missouri Department of Natural Resources
P.O. Box 250
Rolla, MO. 65401
Attn: Mr. Bruce W. Netzler, Geologist

MO. OIL & GAS COUNCIL

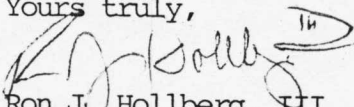
Dear Mr. Netzler,

I am in receipt of your letter requesting an interpretation of the log reports submitted to your office in 1981 by our company covering wells on the Beary Lease, Cass County, Missouri. In 1982-83 we basically shut down our operations in the Kansas/Missouri area and let the people go who were responsible for both the drilling of these wells and the Government reports. I have looked over the logs and our in-house geologist here in Salt Lake has examined it also but we are unable to come up with the answers. The fact is that no one is around who was there to observe the way the formations lay, so I don't know ~~how~~ we can clear up the matter.
how

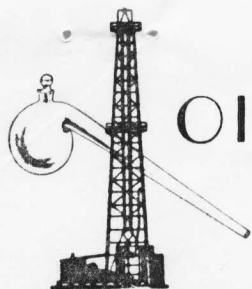
If 3½ years hadn't passed I'd have confidence that maybe we could tack something down, but now I believe it is too late.

I'm sorry I wasn't able to help you in getting this cleared up. Please feel free to call if you have any other questions.

Yours truly,


Ron J. Hollberg, III
Production Dept.

RJH/rh



OILFIELD RESEARCH LABORATORIES

536 NORTH HIGHLAND - CHANUTE, KANSAS 66720 - PHONE (316) 431-2650

January 19, 1981

Emery Energy, Inc.
P. O. Box 519
Osawatomie, Kansas 66064

Gentlemen:

Attached hereto are the results of tests run on the rotary cores taken from the Beary Lease, Well No. 54-C, located in T-46N, R-33W in Cass County, Missouri.

The cores were sampled and sealed in plastic by a representative of the client and submitted to our laboratory on January 3, 1981.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Sanford A. Michel

SAM/kas

5 c to Osawatomie, Kansas

RECEIVED

JUN 04 1981

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